

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|                             |   |                            |
|-----------------------------|---|----------------------------|
| In re Application of:       | ) |                            |
|                             | ) |                            |
| Christopher NUTBEEM et al.  | ) | Group Art Unit: Unassigned |
|                             | ) |                            |
| Application No.: 10/511,203 | ) | Examiner: Unassigned       |
|                             | ) |                            |
| Filed: October 14, 2004     | ) |                            |
|                             | ) |                            |
| For: PAPER COATING PIGMENTS | ) | Confirmation No.: 8623     |
|                             | ) |                            |

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SUPPLEMENTAL INFORMATION**  
**DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed foreign and non-patent literature documents are attached. Copies of the U.S. patent publications are not enclosed.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached listing.

With respect to the non-English language documents, Applicants submit the following remarks:

1. **EP 0 713 548** - The Abstract of the Disclosure of this document can be found in the English Language Derwent Abstract submitted herewith.
2. **EP 1 021 621 B1** - The Abstract of the Disclosure of this document can be found in the English Language Derwent Abstract submitted herewith.
3. **JP 2001-005947** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
4. **JP 2002-113450** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
5. **JP 01-170900** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
6. **JP 02-077045** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
7. **JP 02-305380** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
8. **JP 03-240243** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
9. **JP 03-341097** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
10. **JP 04-189000** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.
11. **JP 04-242579** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.

12. **JP 04-315408** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.

13. **JP 05-092901** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.

14. **JP 10-289884** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.

15. **JP 10-113780** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.

16. **JP 2001-225501** - The Abstract of the Disclosure of this document can be found in the English Language Patent Abstract of Japan submitted herewith.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

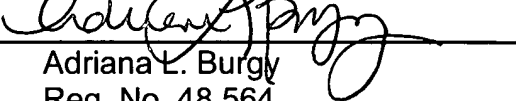
Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: December 15, 2005

By:   
Adriana L. Burgy  
Reg. No. 48,564

|  |   |    |                             |                               |               |
|--|---|----|-----------------------------|-------------------------------|---------------|
| <b>IDS Form PTO/SB/08: Substitute for form 1449A/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    | <b>Complete if Known</b>    |                               |               |
|  |   |    | <i>Application Number</i>   | 10/511,203                    |               |
|  |   |    | <i>Filing Date</i>          | October 14, 2004              |               |
|  |   |    | <i>First Named Inventor</i> | Christopher Nutbeem et al.    |               |
|  |   |    | <i>Art Unit</i>             | Unassigned                    |               |
|  |   |    | <i>Examiner Name</i>        | Unassigned                    |               |
| Sheet  | 1 | of | 4                           | <i>Attorney Docket Number</i> | 07812.0050-00 |

| U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS |                       |  |   |   |   |
|---|-----------------------|--|---|---|---|
| Examiner Initials                                   | Cite No. <sup>1</sup> | Document Number                          | Issue or Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|   |                       | Number-Kind Code <sup>2</sup> (if known) |   |   |   |
|   |                       | US-5,833,747                             | 11/10/1998                              | Bleakley et al.                                 |   |
|   |                       | US-3,661,610                             | 5/9/1972                                | Ferris  |   |
|   |                       | US-3,674,529                             | 7/4/1972                                | G.L. Toms                                       |   |
|   |                       | US-4,298,652                             | 11/3/1981                               | Suzuki et al.                                   |   |
|   |                       | US-4,714,603                             | 12/22/1987                              | Vanderheiden                                    |   |
|   |                       | US-4,806,167                             | 2/21/1989                               | Raythatha                                       |   |
|   |                       | US-4,820,554                             | 4/11/1989                               | Jones et al.                                    |   |
|   |                       | US-5,082,887                             | 1/21/1992                               | Brown et al.                                    |   |
|   |                       | US-5,100,472                             | 3/31/1992                               | Fugitt et al.                                   |   |
|   |                       | US-5,120,365                             | 6/9/1992                                | Kogler  |   |
|   |                       | US-5,151,124                             | 9/29/1992                               | Rice  |   |
|   |                       | US-4,842,772                             | 6/27/1989                               | Withiam   |   |
|   |                       | US-5,219,660                             | 6/15/1993                               | Wason et al.                                    |   |
|   |                       | US-5,262,239                             | 11/16/1993                              | Wason et al.                                    |   |
|   |                       | US-5,312,485                             | 5/17/1994                               | Wason et al.                                    |   |
|   |                       | US-5,352,287                             | 10/4/1994                               | Wason et al.                                    |   |
|   |                       | US-5,236,989                             | 8/17/1993                               | Brown et al.                                    |   |
|   |                       | US-5,344,487                             | 9/6/1994                                | Whalen-Shaw                                     |   |
|   |                       | US-5,439,558                             | 8/8/1995                                | Bergmann et al.                                 |   |
|   |                       | US-5,670,242                             | 9/23/1997                               | Asano et al.                                    |   |
|   |                       | US - 5,853,870                           | 12/29/1998                              | Uchimura et al.                                 |   |
|   |                       | US-5,861,209                             | 1/19/1999                               | Haskins et al.                                  |   |
|   |                       | US-5,882,396                             | 3/16/1999                               | Hiorns  |   |
|   |                       | US-5,985,424                             | 11/16/1999                              | DeMatte et al.                                  |   |
|   |                       | US-6,004,467                             | 12/21/1999                              | Bleakley  |   |
|   |                       | US-6,143,064                             | 11/7/2000                               | Virtanen  |   |
|   |                       | US-6,284,034                             | 9/4/2001                                | Hiorns et al.                                   |   |
|   |                       | US-6,312,511                             | 11/6/2001                               | Bilimoria et al.                                |   |
|   |                       | US-6,440,209                             | 8/27/2002                               | Ravishankar et al.                              |   |
|   |                       | US-6,482,581                             | 11/19/2002                              | Govers et al.                                   |   |
|   |                       | US-6,511,536                             | 1/28/2003                               | Noguchi et al.                                  |   |
|   |                       | US-6,602,484                             | 8/5/2003                                | Virtanen  |   |
|   |                       | US-6,699,318                             | 3/2/2004                                | Virtanen  |   |
|   |                       | US-6,811,600                             | 11/2/2004                               | Mathur et al.                                   |   |

|  |   |    |   |                          |                            |
|--|---|----|---|--------------------------|----------------------------|
| IDS Form PTO/SB/08: Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                            |
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|  |   |    |   | Art Unit                 | Unassigned                 |
|  |   |    |   | Examiner Name            | Unassigned                 |
| Sheet  | 2 | of | 4 | Attorney Docket Number   | 07812.0050-00              |

| U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS |  |                 |            |                 |  |
|---|--|-----------------|------------|-----------------|--|
|   |  | US-6,887,351    | 5/3/2005   | Lunden et al.   |  |
|   |  | US-RE38,301E    | 11/11/2003 | Bleakley et al. |  |
|   |  | US-2001/0026869 | 10/4/2001  | Wicher et al.   |  |
|   |  | US-2005/0031805 | 2/10/2005  | Fugitt et al.   |  |

**Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.**

| FOREIGN PATENT DOCUMENTS |                       |   |                                |  |  |                          |
|--------------------------|-----------------------|---|--------------------------------|--|--|--------------------------|
| Examiner Initials        | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document   | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures<br>Appear | Translation <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                |  |  |                          |
|                          |                       | EP 0 528 078 A1   | 2/24/1993                      | ECC Int'l. Ltd.                                      |  |                          |
|                          |                       | EP 0 521 737 A1   | 1/7/1993                       | OY Partek AB   |  |                          |
|                          |                       | EP 0 355 521 B1   | 2/28/1990                      | J.M. Huber Corp.                                     |  |                          |
|                          |                       | EP 0 981 667 B1   | 3/1/2000                       | Minerals Technologies Inc.                           |  |                          |
|                          |                       | EP 1 052 227 A2   | 11/15/2000                     | ECC Int'l. Ltd.                                      |  |                          |
|                          |                       | EP 0 587 692 B1   | 3/23/1994                      | MO Och Domsjo Aktiebolag                             |  |                          |
|                          |                       | EP 0 713 548 B1   | 5/29/1996                      | Stora Publication Paper                              |  | Abstract                 |
|                          |                       | EP 1 021 621 B1   | 7/26/2000                      | Ahlstrom Paper Research<br>and Competence Center     |  | Abstract                 |
|                          |                       | EP 1 114 735 A2   | 7/11/2001                      | Westvaco Corp.                                       |  |                          |
|                          |                       | EP 1 270 247 B1   | 1/2/2003                       | Mitsubishi Paper Mills, Ltd                          |  |                          |
|                          |                       | JP 2001-005947  | 7/31/2002                      | Sumitomo Heavy Ind Ltd.                              |  | Abstract                 |
|                          |                       | JP 2002-113450  | 11/28/2003                     | Mitsubishi Paper Mills Ltd.                          |  | Abstract                 |
|                          |                       | JP 01-170900  | 2/21/1991                      | Kanzaki Paper Mfg. Co. Ltd.                          |  | Abstract                 |
|                          |                       | JP 02-077045  | 12/9/1991                      | Toshiba Corp.<br>Toshiba Intelligent Technol<br>Ltd. |  | Abstract                 |
|                          |                       | JP 02-305380  | 7/2/1992                       | Mitsubishi Paper Mills Ltd.                          |  | Abstract                 |
|                          |                       | JP 03-240243  | 3/9/1993                       | Okutama Kogyo KK                                     |  | Abstract                 |
|                          |                       | JP 03-341097  | 7/9/1993                       | Mitsubishi Paper Mills Ltd.                          |  | Abstract                 |
|                          |                       | JP 04-189000  | 1/18/1994                      | Okutama Kogyo KK                                     |  | Abstract                 |
|                          |                       | JP 04-242579  | 3/8/1994                       | New OJI Paper Co. Ltd.                               |  | Abstract                 |
|                          |                       | JP 04-315408  | 6/7/1994                       | Japan Synthetic Rubber Co.<br>Ltd.                   |  | Abstract                 |
|                          |                       | JP 05-092901  | 11/1/1994                      | New OJI Paper Co. Ltd.                               |  | Abstract                 |
|                          |                       | JP 10-289884  | 7/27/1999                      | Haindl Papier GmbH                                   |  | Abstract                 |
|                          |                       | JP 10-113780  | 11/2/1999                      | OJI Paper Co. Ltd.                                   |  | Abstract                 |
|                          |                       | JP 2001-225501  | 2/13/2003                      | Okutama Kogyo KK                                     |  | Abstract                 |
|                          |                       | WO 98/56860   | 12/17/1998                     | ECC Int'l. Inc.                                      |  |                          |
|                          |                       | WO 00/66509   | 11/9/2000                      | Imerys Pigments, Inc.                                |  |                          |

|  |   |    |                             |                               |               |
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| Sheet  | 3 | of | 4                           | <i>Attorney Docket Number</i> | 07812.0050-00 |

| FOREIGN PATENT DOCUMENTS |  |                   |            |                            |  |  |
|--------------------------|--|-------------------|------------|----------------------------|--|--|
|                          |  | WO 00/66510       | 11/9/2000  | Imerys Pigment, Inc.       |  |  |
|                          |  | WO 03/093577 A1   | 11/13/2003 | Nutbeem et al.             |  |  |
|                          |  | WO 03/054300 A1   | 7/3/2003   | Minerals Technologies Inc. |  |  |
|                          |  | WO 2004/059079 A2 | 7/15/2004  | Imerys Pigments, Inc.      |  |  |
|                          |  | WO 2005/033403 A1 | 4/14/2005  | Imerys Pigments, Inc.      |  |  |
|                          |  | WO 2005/061386 A1 | 7/7/2005   | Imerys Pigments, Inc.      |  |  |
|                          |  | WO 2004/114014 A1 | 12/29/2004 | Meadwestvaco Corp.         |  |  |
|                          |  | WO 00/40424       | 7/13/2000  | International Paper Co.    |  |  |
|                          |  | WO 99/51815       | 10/14/1999 | ECC Int'l. Ltd.            |  |  |
|                          |  | WO 00/66509       | 11/9/2000  | Imerys Pigments, Inc.      |  |  |
|                          |  | WO 00/66510       | 11/9/2000  | Imerys Pigments, Inc.      |  |  |
|                          |  | GB 2 240 398 A    | 7/31/1991  | ECC Int'l. Ltd.            |  |  |

| NON PATENT LITERATURE DOCUMENTS |                       |   |  |                          |
|---------------------------------|-----------------------|---|--|--------------------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  | Translation <sup>8</sup> |
|                                 |                       | D.B. CRAWSHAW et al., "The Influence of Pigment Particle Shape on the Performance of Paper Coating," Coating Conference 1982, pgs. 143-164  |  |                          |
|                                 |                       | R.W. HAGEMEYER, "The Effect of Particle Shape and Chemical Composition on the Packing Characteristics of Pigment Combinations," <i>Tappi</i> , Vol. 47, No. 2, February 1964, pgs. 74-77  |  |                          |
|                                 |                       | R.W. HAGEMEYER, "The Effect of Pigment Combination and Solids Concentration on Particle Packing and Coated Paper Characteristics," <i>Tappi</i> , Vol. 43, No. 3, March 1960, pgs. 277-288  |  |                          |
|                                 |                       | R. GRANT et al., "Coated-Paper Producers Look Forward to Brighter Times," <i>PPI</i> , May 1994, pgs. 18, 20, 25-27, 29, 31.  |  |                          |
|                                 |                       | Copy of English Abstract for EP 0 713 548 B1  |  |                          |
|                                 |                       | Copy of English Abstract for EP 1 021 621 B1  |  |                          |
|                                 |                       | Copy of English Abstract for JP 2001-005947   |  |                          |
|                                 |                       | Copy of English Abstract for JP 2002 113450   |  |                          |
|                                 |                       | Copy of English Abstract for JP 01-170900   |  |                          |
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|                                 |                       | Copy of English Abstract for JP 02-305380   |  |                          |
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|                                 |                       | Copy of English Abstract for JP 10-289884   |  |                          |
|                                 |                       | Copy of English Abstract for JP 10-113780   |  |                          |

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| Sheet   | 4 | of | 4 | <i>Attorney Docket Number</i> | 07812.0050-00              |

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|--|--|---|--|
| <b>NON PATENT LITERATURE DOCUMENTS</b> |  |   |  |
|  |  | Copy of English Abstract for JP 2001-225501 |  |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.